Inventors: Chris Brumme, Jan Gray,

Jonathan Hawkins, Alan Shi, Sean Trowbridge

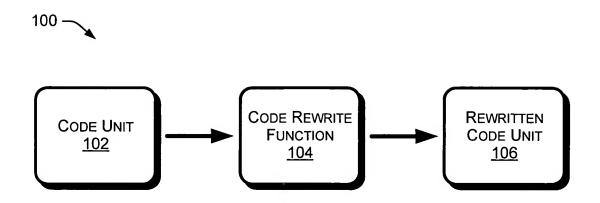


Fig. 1

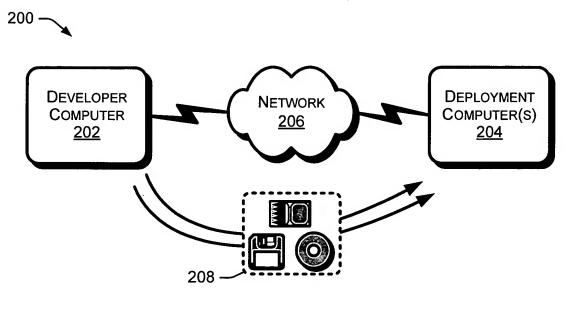


Fig. 2

Inventors: Chris Brumme, Jan Gray,

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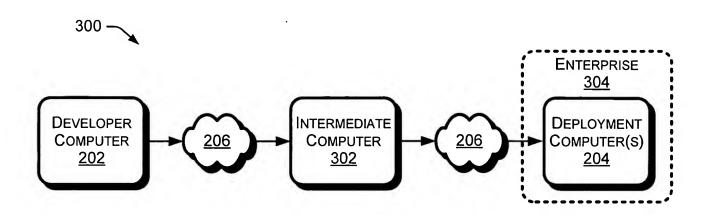


Fig. 3

<u>Docket No.</u>: MS1-1771US

<u>Inventors</u>: Chris Brumme, Jan Gray,
Jonathan Hawkins, Alan Shi, Sean Trowbridge
<u>Title</u>: Code Rewriting

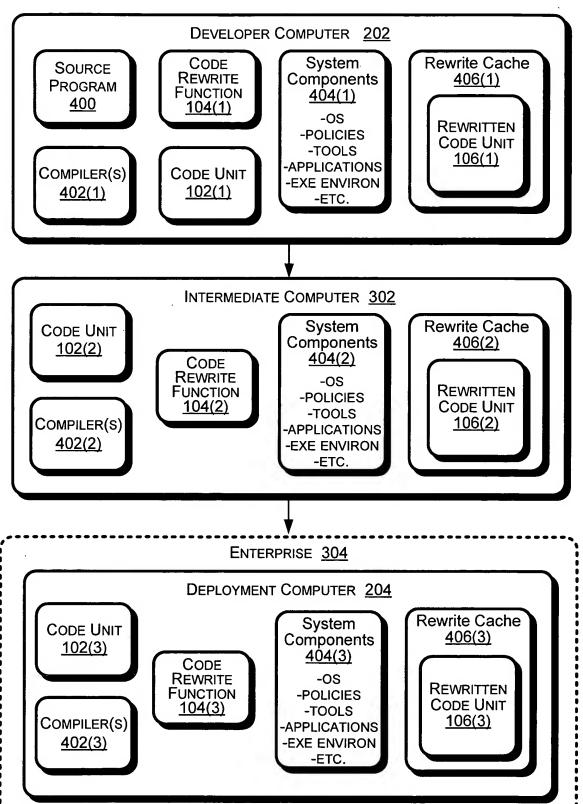
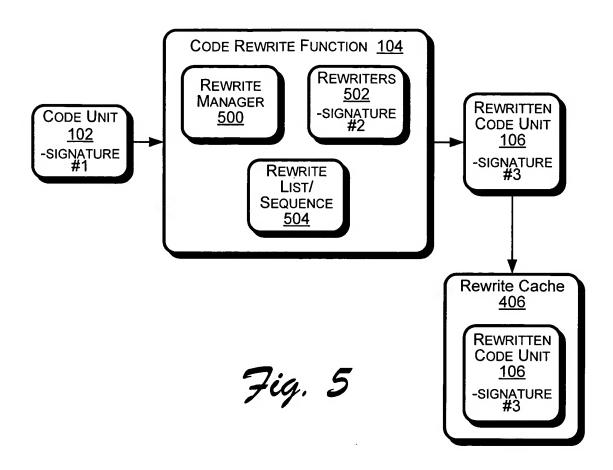


Fig. 4

Inventors: Chris Brumme, Jan Gray,

Jonathan Hawkins, Alan Shi, Sean Trowbridge



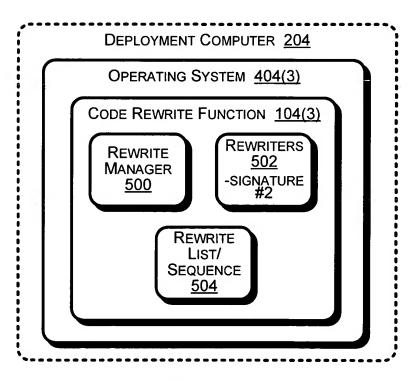
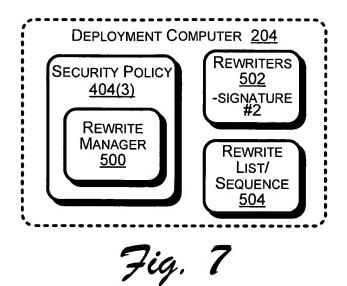


Fig. 6

Inventors: Chris Brumme, Jan Gray,

Jonathan Hawkins, Alan Shi, Sean Trowbridge

Title: Code Rewriting



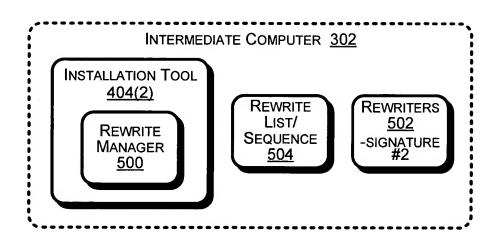


Fig. 8

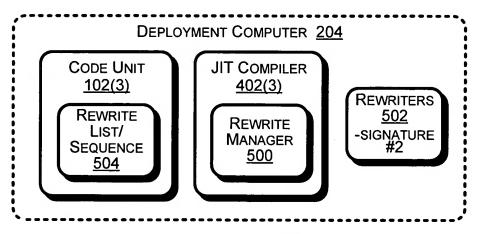
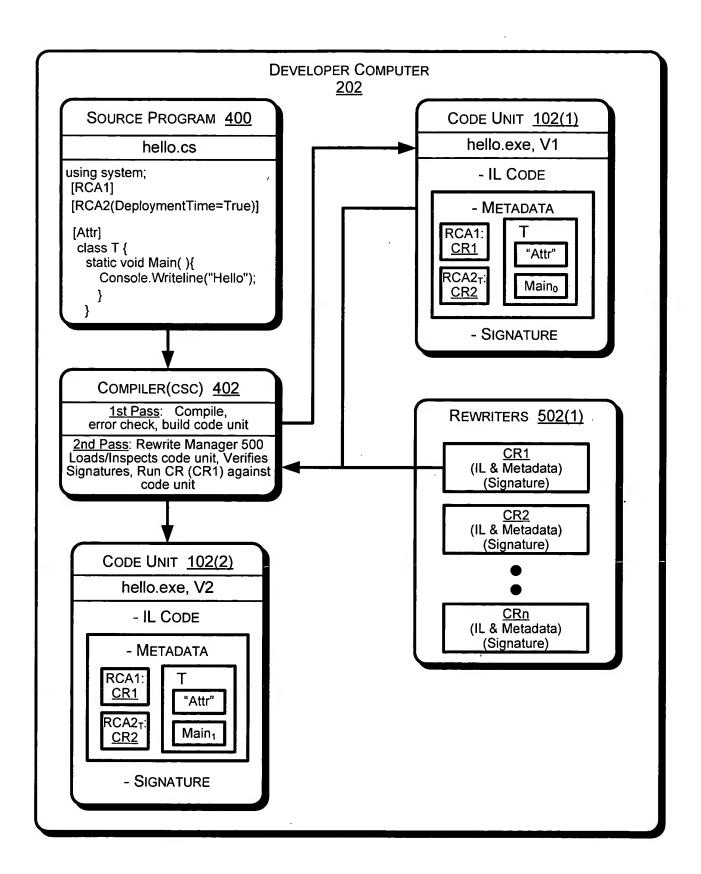


Fig. 9

Inventors: Chris Brumme, Jan Gray,

Jonathan Hawkins, Alan Shi, Sean Trowbridge



Inventors: Chris Brumme, Jan Gray,

Jonathan Hawkins, Alan Shi, Sean Trowbridge

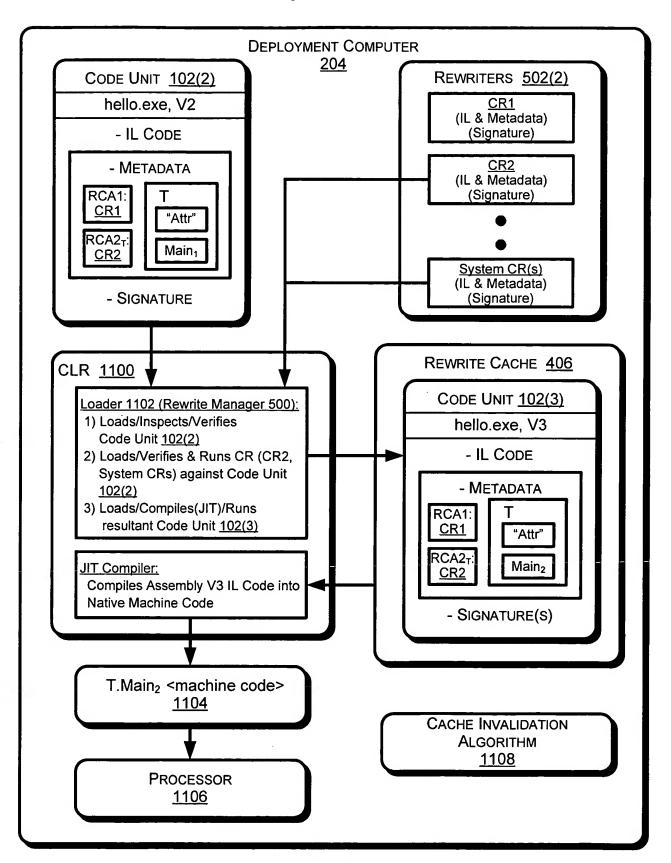


Fig. 11

Inventors: Chris Brumme, Jan Gray,

Jonathan Hawkins, Alan Shi, Sean Trowbridge

Title: Code Rewriting

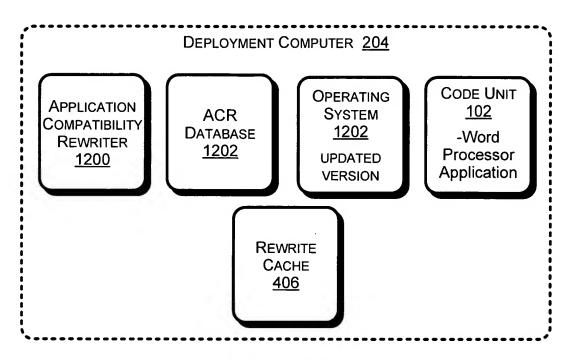


Fig. 12

Docket No.: MS1-1771US Inventors: Chris Brumme, Jan Gray, Jonathan Hawkins, Alan Shi, Sean Trowbridge Title: Code Rewriting 1302 ے - 1320 RECEIVE INSTRUCTION TO **EXECUTE CODE UNIT** 1322 ے - 1304 RECOGNIZE THAT REWRITTEN CODE UNIT STORED IN CACHE 1324 ے **1306** LOAD REWRITTEN CODE UNIT FROM CACHE 1326 ے **~** 1308 VERIFY DIGITAL SIGNATURE OF REWRITTEN CODE UNIT 1328 ے **- 1310** EXECUTE REWRITTEN CODE UNIT **- 1312 ~** 1314 1316 ے

1300 -RECEIVE A CODE UNIT DETERMINE THAT THE CODE UNIT **NEEDS TO BE REWRITTEN** DETERMINE ONE OR MORE REWRITERS TO REWRITE THE **CODE UNIT** VERIFY TRUSTWORTHINESS OF CODE UNIT AND REWRITERS (AUTHENTICATE DIGITAL SIGNATURES) SEQUENCE REWRITERS TO REWRITE CODE UNIT IN PARTICULAR ORDER **RUN REWRITERS AGAINST THE** CODE UNIT TO GENERATE A REWRITTEN CODE UNIT GENERATE DIGITAL SIGNATURE FOR REWRITTEN CODE UNIT ASSOCIATE DIGITAL SIGNATURE WITH REWRITTEN CODE UNIT - 1318 STORE THE REWRITTEN CODE

Fig. 13

**UNIT IN A CACHE** 

Inventors: Chris Brumme, Jan Gray,

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